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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/579,164	05/29/2007	Margit Teltschik	13838-00005-US	1591	
	7590 12/18/200 BOVE LODGE & HUT	EXAMINER			
PO BOX 2207		ROBINSON, CHANCEITY N			
WILMINGTON, DE 19899			ART UNIT	PAPER NUMBER	
		1795			
		MAIL DATE	DELIVERY MODE		
			12/18/2009	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary		А	pplication No.	Applicant(s)				
		1	0/579,164	TELTSCHIK ET AL.				
		E	xaminer	Art Unit				
		С	HANCEITY N. ROBINSON	1795				
Period fo	The MAILING DATE of this communic r Reply	cation appear	s on the cover sheet with the c	orrespondence ac	ldress			
WHIC - Exter after - If NO - Failu Any r	CORTENED STATUTORY PERIOD FOR HEVER IS LONGER, FROM THE MASSISSION OF THE MASSISSION	AILING DATE f 37 CFR 1.136(a inication. utory period will a vill, by statute, cau	E OF THIS COMMUNICATION In no event, however, may a reply be time ply and will expire SIX (6) MONTHS from se the application to become ABANDONE	J. nely filed the mailing date of this c D (35 U.S.C. § 133).				
Status								
1) 又	Responsive to communication(s) filed	l on 09 Septe	ember 2009.					
	•		tion is non-final.					
′=	Since this application is in condition for	<i>,</i> —		secution as to the	e merits is			
<i>/</i> —	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims							
 4) Claim(s) 1-15 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 								
· ·	6)⊠ Claim(s) <u>1-15</u> is/are rejected.							
•	Claim(s) is/are objected to.							
8)	Claim(s) are subject to restrict	ion and/or el	ection requirement.					
Applicati	on Papers							
9) 🗌 🤈	The specification is objected to by the	Examiner.						
10)	10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.							
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11)[The oath or declaration is objected to	by the Exam	iner. Note the attached Office	Action or form P	ГО-152.			
Priority เ	ınder 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage 								
application from the International Bureau (PCT Rule 17.2(a)).								
* See the attached detailed Office action for a list of the certified copies not received.								
Attachmen								
	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PT	O-948)	4) ∭ Interview Summary Paper No(s)/Mail Da					
3) 🔲 Inforr	nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	- 0.01	5) Notice of Informal P 6) Other:					

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DETAILED ACTION

1. The Applicant's request for reconsideration filed on September 09, 2009 was received.

2. The text of those sections of Title 35, U.S.C. code not included in this action can be found in the prior Office Action issued on June 09, 2009.

Claim Rejections - 35 USC § 103

3. Claims 1-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Suzuki et al. (US 5,889,116) in view of Dudek et al. (WO 01/88615 A1).

Regarding claims 1-15, Suzuki et al. disclose a process for the production of the flexographic printing plate by thermal development (abstract). The flexographic printing plate comprises a stable substrate and photopolymerizable layer (col. 10, lines 9-26). The photopolymerizable relief-forming layer comprises of an elastomeric binder (col. 2, line 31), ethylenically unsaturated monomers (col. 2, lines 37-38), plasticizer (column 9, lines 50-56) and photoinitiator (col. 9, lines 29-35). Suzuki et al. disclose an imagewise exposure of the photopolymerizable layer to actinic radiation (page 10, lines 46-56), heating of the exposed flexographic printing plate to a temperature of from 40 to 200 °C (example 1). Suzuki et al. disclose the elastomeric binder is at least one styrene/butadiene copolymer having a molecular weight of from 80000 to 250000 g/mol and styrene content of form 15 to 35% by weight, based on the binder, the proportion of butadiene present in 1,2-linked form being at least 15% by weight, based on the binder, and the amount of the styrene/butadiene block copolymer is from 35 to 50% by weight and that of the plasticizer is from 25 to 50% by weight, based in each case on the sum of all components of the relief-forming layer (col. 7, lines 4-51 & col. 8, lines 29-33 & example 1). Suzuki et al. disclose a mixture furthermore comprises at least one mineral oil

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(petroleum resin) and at least polybutadiene oil (col. 9, lines 19-56). Suzuki et al. disclose the photopolymerizable layer additionally comprises up to 20% by weight of at least one secondary binder (copolymer; col. 1, line 65- col. 2, line 40).

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However, Suzuki et al. do not explicitly disclose the process step of removal of the softened, unpolymerized parts of the relief-forming layer with formation of a printing relief or imagewise exposure on a digitally imageable layer through a mask. Dudek et al. disclose a process for preparing a flexographic printing plate (abstract) which comprise of a dimensionally stable substrate (support; page 9, lines 23-38) and photopolymerizable layer (page 10, lines 8-9). Dudek et al. disclose the process step of removal of the unpolymerized parts of the photopolymerizable layer (page 15, lines 6-36) while in contact with an absorbent material (page 15, line 37- page 6, line 32). The removal process aids in providing internal strength and tear resistance to temperature up to, including and slightly beyond the melting temperature of the uncured photopolymerizable material. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to include the removal process step of Dudek et al. in the process of Suzuki et al. because Dudek et al. disclose the removal process aids in providing internal strength and tear resistance to temperature up to, including and slightly beyond the melting temperature of the uncured photopolymerizable material. Dudek et al. disclose the imagewise exposure of the photosensitive element to actinic radiation may be conducted in the presence or absence of atmospheric oxygen for photosensitive elements having an in situ mask (page 14, lines 22-24) in order to assure good contact between the image transparency and the photosensitive element. The mask can be an IR-ablative mask or thermographic mask (page 13, lines 15-30). The flexographic printing element has a digitally imageable layer (page 13, lines 5-

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9). Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to include imagewise exposure on a digitally imageable layer through a mask as disclosed by Dudek et al. in the process of Suzuki et al. because Dudek et al. disclose the imagewise exposure on a digitally imageable layer through a mask aids in providing good contact between the image transparency and the photosensitive element.

Response to Arguments

4. Applicant's arguments filed 09/09/2009 have been fully considered but they are not persuasive.

Applicant's principal arguments are:

(a) According to Suzuki, the photosensitive rubber plate containing the composition is developed with a developing solution and then rinsed with water. The developing solution is an aqueous 2% solution coconut oil fatty acid diethanolamide. The aim of the Suzuki invention is to provide a photosensitive rubber plate capable of being washed with water at a high rate at the step of development. This was achieved by using certain hydrophilic copolymers containing phosphorus-containing monoethylenically and diethylenically unsaturated monomers. There is no hint or suggestion in Suzuki that the photosensitive composition can be used successfully with flexographic printing plates which are processed by the applicant's claimed thermal development.

Examiner disagrees. Examiner notes that the photosensitive composition disclosed by Suzuki is used to prepare flexographic printing plates just as claimed by the instant application. See abstract. Further, Suzuki discloses a process for producing a flexographic printing plate by thermal development, which comprises a dimensionally substrate and a photopolymerizable

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relief-image forming layer. See col. 10, lines 9-26 and lines 27-56. The photopolymerizable relief-forming layer comprises an elastomeric binder (col. 2, line 31), ethylenically unsaturated monomers (col. 2, lines 37-38), plasticizer (column 9, lines 50-56) and photoinitiator (col. 9, lines 29-35). Also, Suzuki discloses imagewise exposure of the photopolymerizable layer to actinic radiation (page 10, lines 46-56), heating of the exposed flexographic printing plate to a temperature of from 40 to 200 °C (example 1). Suzuki was not added to disclose to the removal step of the instant invention. The Examiner added Dudek et al. to disclose the limitation of removing the unpolymerized parts of the relief layer. Further, Examiner notes the instant application only claims the removal of the softened, unpolymerized parts of the relief-forming layer with formation of a printing layer in the independent claims. There is no disclosure in the independent claim that the removal of the unpolymerized parts of the relief-forming layer with formation of a printing relief could not occur by washing the unpolymerized parts with a solution. Examiner notes that washing the unpolymerized parts is a form of removal. The instant application does not recite how the removal process occurs in the independent claim. Examiner notes Applicant states that Suzuki does not suggest or hint that the photosensitive composition can be used successfully with flexographic printing plates. Applicant has stated her opinion without showing any evidence that the Suzuki's photosensitive composition can not be used successfully with flexographic printing plates. Applicant's arguments fail to comply with 37 CFR 1.111(b) because they amount to a general allegation that the claims define a patentable invention without specifically pointing out how the language of the claims patentably distinguishes them from the references.

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(b) Dudek does not disclose the photopolymerizable relief-forming layer on the present invention. There is no hint or suggestion in Dudek that the photosensitive composition of Suzuki, which is disclosed for a chemical development step using a washing solution, can be successfully employed as a photopolymerizable elastomeric layer in the Dudek process employing a thermal development step. Therefore, there was no motivation for the skilled in the art to modify the teaching of Dudek by using the photosensitive composition in order to arrive at the invention.

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Examiner agrees that Dudek does not explicitly disclose the relief-image forming layer as claimed by the instant application. However, Examiner has only added Dudek to disclose the process steps of the instant application of removal of the softened, unpolymerized parts of the relief-forming layer with formation of a printing relief and the step of imagewise exposure on a digitally imageable layer through a mask. Dudek discloses a process for preparing a flexographic printing plate (abstract) which comprise of a dimensionally stable substrate (support; page 9, lines 23-38) and photopolymerizable layer (page 10, lines 8-9). Dudek discloses the process step of the removal of the unpolymerized parts of the photopolymerizable layer (page 15, lines 6-36) while in contact with an absorbent material (page 15, line 37- page 6, line 32). Dudek discloses the imagewise exposure of the photosensitive element to actinic radiation may be conducted in the presence or absence of atmospheric oxygen for photosensitive elements having an in situ mask (page 14, lines 22-24) in order to assure good contact between the image transparency and the photosensitive element. Suzuki and Dudek are analogous art in the flexographic printing plate field. Dudek teaches that by incorporating a removal step of the unpolymerized parts of the relief-forming layer aids, while in contact with an absorbent material allows the flexographic

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printing plates to aid in having internal strength and tear resistance. See page 17. Further, Dudek teaches that the removal of the unpolymerized parts of the relief-forming layer allows for a flexographic printing plate to be produced without distortion. See page 15, lines 22-36.

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to modify the process of Suzuki in view of tear resistance, internal strength of the plate and distortion effects. Therefore, the rejections are maintained.

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(c) The applicant does not agree or understand the Examiner's argument. The argument appears not to be based on sound scientific reasoning. The paragraph on page 16, lines 23 to 27, to which the Examiner is obviously referring, further only characterizes the desirable properties of this absorbent material. It is impermissible to simply engage in hindsight reconstruction of the claimed invention where the reference itself provides no teaching as to why the applicant's combination would have been obvious.

Examiner disagrees. In response to applicant's argument that the examiner's conclusion of obviousness is based upon improper hindsight reasoning, it must be recognized that any judgment on obviousness is in a sense necessarily a reconstruction based upon hindsight reasoning. But so long as it takes into account only knowledge which was within the level of ordinary skill at the time the claimed invention was made, and does not include knowledge gleaned only from the applicant's disclosure, such a reconstruction is proper. See *In re McLaughlin*, 443 F.2d 1392, 170 USPQ 209 (CCPA 1971). The absorbent material disclosed by Dudek is part of the removal process. See page 15, lines 6-36 and page 15, line 37- page 6, line 32. Examiner stated the removal process aids in the printing plate layer to have tear resistance and internal strength. Further, Dudek teaches that the removal of the unpolymerized parts of the

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relief-forming layer allows for a flexographic printing plate to be produced without distortion. See page 15, lines 22-36. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to modify the process of Suzuki in view of tear resistance, internal strength of the plate and distortion effects. Therefore, the rejections are maintained.

Conclusion

5. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to CHANCEITY N. ROBINSON whose telephone number is (571)270-3786. The examiner can normally be reached on Monday to Thursday: 7:30 am-6:00 pm eastern time.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cynthia Kelly can be reached on (571)272-1526. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Chanceity N Robinson/ Examiner, Art Unit 1795

/Cynthia H Kelly/ Supervisory Patent Examiner, Art Unit 1795